

## Product datasheet for **RR211312**

### Cyb5a (NM\_022245) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cyb5a (NM\_022245) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Cyb5a  
**Synonyms:** Cyb5  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR211312 representing NM\_022245  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGGATCGCC**

ATGGCCGAGCAGTCAGACAAGGATGTGAAGTACTACACTCTGGAGGAGATTCAGAAGCACAAAGACAGCA  
AGAGCACCTGGGTGATCCTACATCATAAGGTGTACGATCTGACCAAGTTTCTCGAAGAGCATCCTGGTGG  
GGAAGAAGTCCTAAGAGAGCAAGCTGGGGGTGATGCTACTGAGAACTTTGAGGACGTCGGGCACTCTACG  
GATGCACGAGAACTGTCCAAAACATACATCATCGGGGAGCTCCATCCAGATGACAGATCAAAGATAGCCA  
AGCCTTCGGAAACCTTATCACTACTGTGAGTCTAATCCAGTTGGTGGACCAACTGGGTGATCCCAGC  
CATCTCAGCCCTGGTGGTAGCTCTGATGTATCGCCTCTACATGGCAGAAGAT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RR211312 representing NM\_022245  
Red=Cloning site Green=Tags(s)

MAEQSDKDVKYITLLEEQKHKDSKSTWVILHHKVYDLTKFLEEHPGGEEVLRQAGGDATENFEDVGHST  
DARELSKTYIIGELHPDDRSKIAPSETLITTVESNSSWWTNWIIPAI SALVVALMYRLYMAED

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

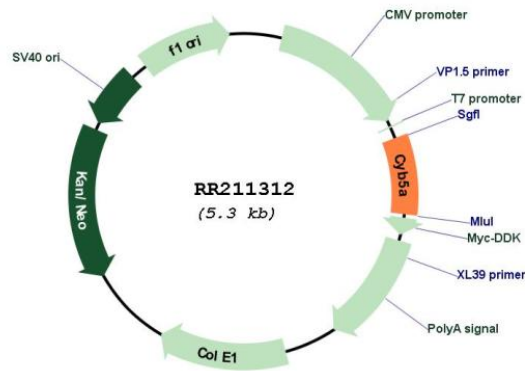


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Cloning Scheme:



Plasmid Map:



ACCN: NM\_022245

ORF Size: 402 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

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<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_022245.1</a> , <a href="#">NP_071581.1</a>
<b>RefSeq Size:</b>	751 bp
<b>RefSeq ORF:</b>	405 bp
<b>Locus ID:</b>	64001
<b>UniProt ID:</b>	<a href="#">P00173</a>
<b>Cytogenetics:</b>	18q12.3
<b>MW:</b>	15.4 kDa
<b>Gene Summary:</b>	a heme protein that may act as an electron transporter [RGD, Feb 2006]